

CWT-BSR series Modbus IO module

CWT-BSR series Modbus IO module series with DI/DO/AI/AO/ port. widely used in buildings, HVAC, fire, water, petrochemical, environmental protection and other industries, for most systems integrators and automation companies, it is a highly cost-effective, reliable data acquisition module. This module is designed for the whole industry, power supply, signal inputs and outputs, RS232 and RS485 port, interference protection designed to ensure data accuracy and reliability. RS485 communication interface performs MODBUS RTU protocol, can be directly connected with the various types of PLC, DCS system, HMI, SCADA.

Model list

Model	IO Port	Communication port
CWT-BSR-DI40B	4 digital inputs	RS485+RS232
CWT-BSR-DO02B	2 relay outputs	RS485+RS232
CWT-BSR-IO22B	2 digital inputs and 2 relay outputs	RS485+RS232
CWT-BSR-AD20B	2 analog inputs (0-10V or 4-20mA)	RS485+RS232
CWT-BSR-AD40B(V)	4 analog inputs (0-10V)	RS485+RS232
CWT-BSR-AD40B(A)	4 analog inputs (0-20mA)	RS485+RS232
CWT-BSR-DA02B	2 analog outputs (0-10V)	RS485+RS232
CWT-BSR-AA02B	2 analog outputs (0-20mA)	RS485+RS232
CWT-BSR-TP20B	2 PT100 inputs	RS485+RS232
CWT-BSR-TD20B	2 K-type thermocouple inputs	RS485+RS232

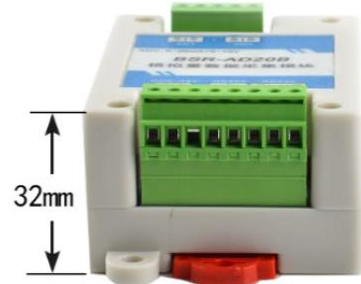
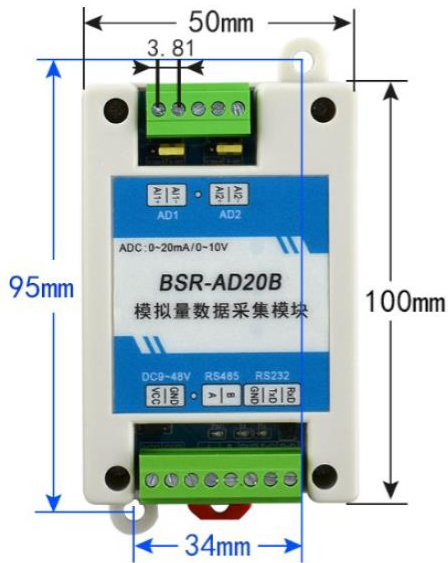
System parameters

Power	DC9-48V (analog module: DC12-48V)
Protection	IP20
Installation	DIN rail mounting or screw fixing
Working Environment	-40°C ~ 70°C, 5% ~ 85%RH(non-condensing)

Serial port parameters

Port type	1RS485 & 1RS232
Baud rate	1200 ~ 115200, default 9600
Parity	Even, Odd, None
start bit	1 bit
data bits	8 bit
Stopbits	1,2bits
Protocol	MODBUS RTU
default	9600.N.8.1, slave id is 1
Response time	15ms (9600bps), 3ms (115200bps)

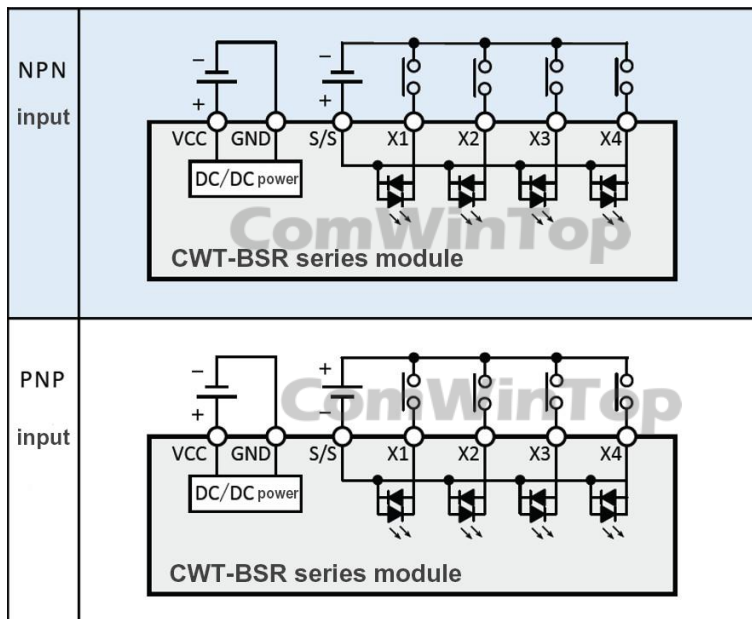
Size



Wiring diagram

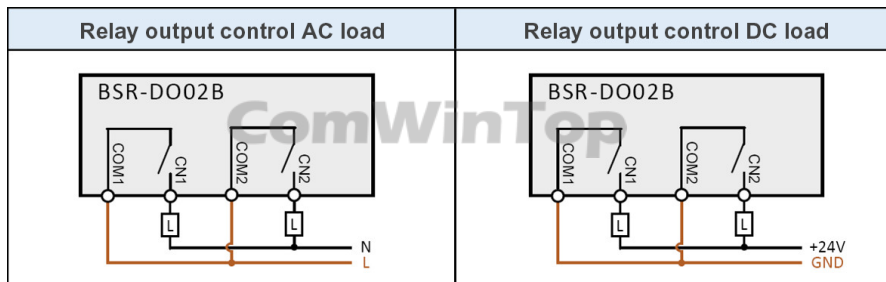
● CWT-BSR-DI40B

Power	DC9~48V
IO port	4 channels digital input
Input type	12-24VDC



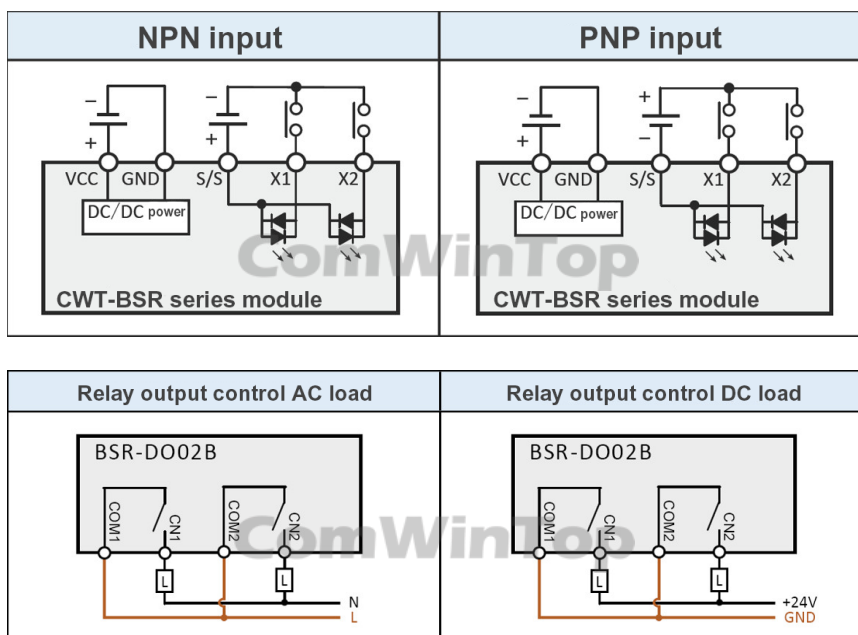
● CWT-BSR-DO02B

Power	DC9~48V
IO port	2 channels output
Output type	Relay (NO)
Load	250V / 2A
Response time	<20ms



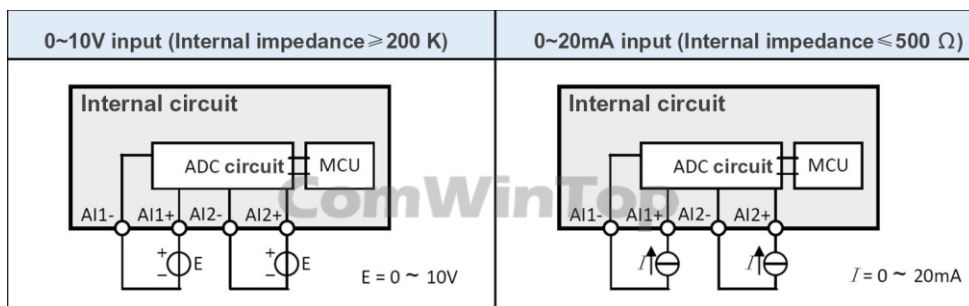
● CWT-BSR-IO22B

Power	DC9~48V
IO port	2 channels digital input and 2 channels digital output
Input type	12-24VDC
Output type	Relay (NO)
Output load	250V / 2A
Output Response time	<20ms



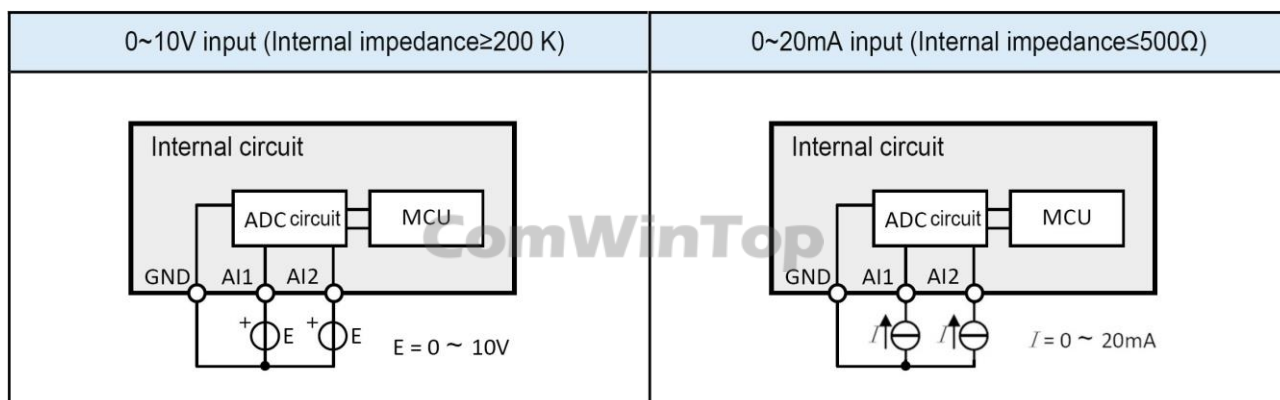
● CWT-BSR-AD20B

Power	DC12~48V
IO port	2 channels analog input
Input type	0-10V or 4-20mA (set by jumper)
Precision	0.1%, 12-bit



● CWT-BSR-AD40B(V) and CWT-BSR-AD40B(A)

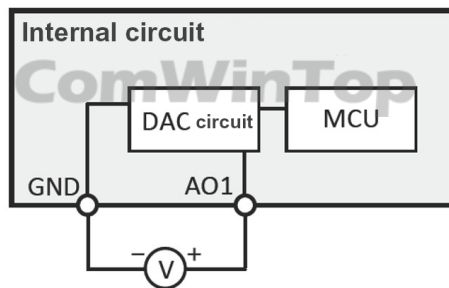
Power	DC12~48V
IO port	4 channels analog input
CWT-BSR-AD40B(V) Input type	0-10V
CWT-BSR-AD40B(A) Input type	0-20mA
Precision	0.1%, 12-bit



● CWT-BSR- DA02B

Power	DC12~48V
IO port	2 channels analog output
Output type	0-10V
Precision	0.1%, 12-bit

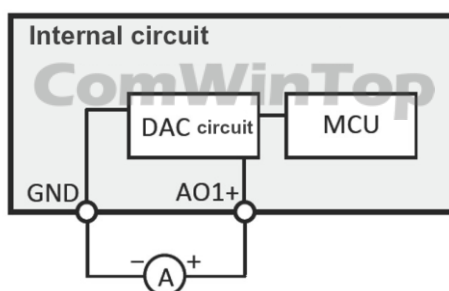
0-10V analog output



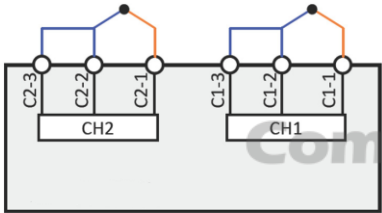
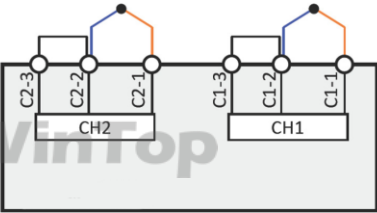
● CWT-BSR-AA02B

Power	DC12~48V
IO port	2 channels analog output
Output type	0-20mA
Precision	0.1%, 12-bit

0-20mA analog output



● CWT-BSR-TP20B

Power	DC9~48V
IO port	2 channels PT100 input
Temperature measuring range	-200°C~600°C
Resolution	0.1
<div> <div>3-wire PT100 input</div>  </div>	
<div> <div>2-wire PT100 input</div>  </div>	



● CWT-BSR-TD20B

Power	DC9~48V
IO port	2 channels K-type thermocouple input
Temperature measuring range	-270°C ~ 1370°C
Resolution	0.1

